

WHAT IS CLAIMED IS:

1 1. A telecommunications device, comprising:
2 a receiver adapted to receive signals at a plurality of frequency bands; and
3 a programmable filter adapted to bandpass filter said signals at individual
4 ones of said frequency bands.

1 2. A telecommunications device in accordance with claim 1, said receiver
2 being a frequency hopping receiver and said programmable filter receiving a
3 frequency select signal.

1 3. A telecommunications device, comprising:
2 a receiver adapted to select one of a plurality of frequency channels; and
3 a bandpass filter having a variable band corresponding to said one of said
4 plurality of frequency channels.

1 4. A telecommunications system, comprising:
2 a base station; and
3 a plurality of handsets;
4 wherein each of said base station and handsets has a radio-frequency
5 receiver adapted to receive signals at a plurality of frequency bands and a
6 programmable filter adapted to bandpass filter said signals at individual ones of said
7 frequency bands
8

1 5. A telecommunications system in accordance with claim 4, said receiver
2 being a frequency hopping receiver and said programmable filter receiving a
3 frequency select signal.

1 6. A telecommunications method, comprising:
2 receiving a channel of a plurality of channels; and
3 band-pass filtering said channel at an input to a radio-frequency receiver.

4

1 7. A telecommunications method in accordance with claim 6, further
2 comprising hopping from one channel to another channel, detecting said hopping,
3 and band-pass filtering said another channel.

1 8. A telecommunications method, comprising:
2 providing a receiver adapted to select one of a plurality of frequency
3 channels; and
4 providing a bandpass filter having a variable band corresponding to said one
5 of said plurality of frequency channels.

1 9. A telecommunications method in accordance with claim 8, said providing a
2 receiver adapted to select one of a plurality of frequency channels comprising
3 providing a frequency hopping receiver.

1 10. A telecommunications method comprising:
2 a base station establishing a frequency hopping scheme;
3 said base station providing information indicative of said scheme to a band
4 pass filter; and
5 said band pass filter filtering channels at frequencies of said frequency
6 hopping scheme responsive to said information.

1 11. A telecommunications method in accordance with claim 10, further
2 comprising:
3 said base station providing information indicative of said scheme to at least
4 one portable unit.

1 12. A telecommunications method in accordance with claim 11, further
2 comprising:
3 said portable unit providing information indicative of said scheme to a band
4 pass filter.

1

1 13. A telecommunications method in accordance with claim 12, further
2 comprising:

3 said band pass filter filtering channels at frequencies of said frequency
4 hopping scheme responsive to said information.

1 14. A telecommunications system, comprising:
2 a base station adapted to establish a frequency hopping scheme and provide
3 information indicative of said scheme to a band pass filter;
4 wherein said band pass filter is adapted to filter channels at frequencies of
5 said frequency hopping scheme responsive to said information.

1 15. A telecommunications system in accordance with claim 14, said base
2 station adapted to provide information indicative of said scheme to at least one
3 portable unit.

1 16. A telecommunications system in accordance with claim 15, said portable
2 unit adapted to provide information indicative of said scheme to a band pass filter.

1 17. A telecommunications system in accordance with claim 16, said band
2 pass filter adapted to filter channels at frequencies of said frequency hopping
3 scheme responsive to said information.